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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/890,646	08/02/2001		Shinichi Ayabe	JKM-001	5225	
20374	7590	08/17/2004		EXAMINER		
KUBOVCII SUITE 710	K & KUI	BOVCIK	KALLIS, RUSSELL			
900 17TH ST	REET N	W	ART UNIT	PAPER NUMBER		
WASHINGT	ON, DC	20006	1638			

DATE MAILED: 08/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Advisory Action	09/890,646	AYABE ET AL.	
Advisory Action	Examiner	Art Unit	
	Russell Kallis	1638	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence addre	ess
THE REPLY FILED 05 August 2004 FAILS TO PLACE T Therefore, further action by the applicant is required to av final rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	roid abandonment of this applica a timely filed amendment which	ation. A proper reply n places the applicati	to a on in
PERIOD FOR RE	PLY [check either a) or b)]		
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF TH	g date of the final rejectior HE FINAL REJECTION. S	n. See MPEP
Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the (2) as set forth in (b) above, if checked. Any reply received by the Office timely filed, may reduce any earned patent term adjustment. See 37 C	f extension and the corresponding amo the shortened statutory period for reply on the later than three months after the mail	unt of the fee. The approportion of the fee. The approportion of the final O	priate extension office action; or
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF			
$2. \boxtimes$ The proposed amendment(s) will not be entered be	ecause:		
(a) $oxed{oxed}$ they raise new issues that would require furthe	er consideration and/or search (s	see NOTE below);	
(b) \square they raise the issue of new matter (see Note b	elow);		
(c) they are not deemed to place the application ir issues for appeal; and/or	n better form for appeal by mate	rially reducing or simp	plifying the
(d) (d) they present additional claims without canceling	ng a corresponding number of fi	nally rejected claims.	
NOTE: See Continuation Sheet.			
$3. \boxtimes$ Applicant's reply has overcome the following reject	ion(s): <u>New Matter</u> .		
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	eparate, timely filed a	mendment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: See		dered but does NOT	place the
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY to	o issues which were I	newly
7. For purposes of Appeal, the proposed amendments explanation of how the new or amended claims we			d an
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: <u>35,39 and 47-54</u> .			
Claim(s) withdrawn from consideration:			
8. The drawing correction filed on 8/02/01 and 7/20/04	$\underline{4}$ is a) \boxtimes approved or b) \square disa	approved by the Exar	miner.
9. Note the attached Information Disclosure Statemen	it(s)(PTO-1449) Paper No(s)		
10. Other:	, , , , , , , , , , , , , , , , , , , ,	- -	
			

Continuation Sheet (PTOL-303)

Continuation of 2. NOTE: Newly filed claims 47-51, drawn to a polynucleotide encoding the amino acid of SEQ ID NO: 2, a variant thereof, a polynucleotide complementary thereto, or a polynculeotide complementary to SEQ ID NO: 1, raise new issues of 112 1st paragraph written description and enablement. The variants of SEQ ID NO: 2 or the complementary strands of SEQ ID NO: 1 of unspecified length, or the complementary strands of the polynucleotides encoding SEQ ID NO: 2, either of full length or of unspecified length, as claimed are not described, and therefore do not meet the written description requirement under 35 U.S.C. 112 1st paragraph. Further, a method for producing 2-hydroxyisoflavone synthase using a complementary polynucleotide, either in its' entirety or of some length other than full length, rather than using the coding strand would not encode a 2-hydroxyisoflavone synthase, and therefore is not enabled under 35 U.S.C. 112 1st paragraph. Furthermore, since Applicant has not described the variants of SEQ ID NO: 2, Applicant has not taught how to make those variants of SEQ ID NO: 2 that would encode a 2-hydroxyisoflavone synthase without resorting to undue trial and error experimentation.

Continuation of 5, does NOT place the application in condition for allowance because: Although Applicant has cancelled all but Claims 35 and 39 from the previous office action, Claims 35 and 39 remain rejected under 35 U.S.C. 112 1st paragraph for reasons of record and for reasons addressed supra. Further, Claim 39 remains rejected under 35 U.S.C. 102(b) for reasons of record. The method does not state that the host cells are trasgenic or that the protein produced is recombinant, and thus the claim reads upon the culturing of untransformed cells of Glycyyhiza that contain SEQ ID NO: 1 and the crude extract that comprises the 2-hydroxyisflavone of SEQ ID NO: 2.

> DAVID T. FOX GROUP 180 1638
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> CREEKS PRIMARY EXAMINER